

ABSTRACT OF THE DISCLOSURE

A base-station amplifier device for use in amplifying at least one channel to be transmitted from a base station is provide to solve deterioration in radio characteristic caused due to variation of peak signal. The base-station amplifier device comprises: amplitude limiting means for amplitude-limiting a base band signal every said channel; high-frequency modulating means for performing a high-frequency modulation on an output from said amplitude limiting means every said channel; adding means for adding outputs from all of said high-frequency modulating means; amplifying means for amplifying an output from said adding means; and amplitude controlling means for controlling said amplitude limiting means based on characteristic of said amplifying means.